

2. A_Two – Twin Primes

Program Name: A_Two.java

Input File: a_two.dat

Two consecutive odd numbers that are both prime numbers are called twin primes. For example, 5 and 7 are the largest pair of twin primes both less than 10. Likewise, 17 and 19 are the largest pair of twin primes less than 20. Given an input integer N, find the largest pair of twin primes less than N.

Input: A data file with several values of N, arranged vertically, $5 < N < 10,000$.

Output: The largest pair of twin primes less than N, formatted as shown below.

Sample input:

```
10
20
372
```

Sample output:

```
5 7
17 19
347 349
```